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DATE MAILED: 11/19/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

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NXP, B.V.				DINH	MINH
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M/S41-SJ				2432	

1109 MCKAY DRIVE SAN JOSE, CA 95131

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/749,142	12/27/2000	Thomas Wille	DE000002	4761

TITLE OF INVENTION: DATA-PROCESSING DEVICE AND METHOD OF OPERATING SAID DEVICE

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	02/19/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	ed below or directed otl	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of a) specifying a new corr	maintenance fees v espondence address	vill be ; and/o	mailed to the current r (b) indicating a sept	correspondence address as trate "FEE ADDRESS" for
		ock 1 for any change of address)	Fe pa	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanyin papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
M/S41-SJ	7590 11/15 CTUAL PROPERT			Cer	ctificate	e of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
1109 MCKAY I SAN JOSE, CA							(Depositor's name)
							(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	ATTO		DRNEY DOCKET NO.	CONFIRMATION NO.
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CFR 1.363). Change of corresp Address form PTO/SI	ondence address (or Cha B/122) attached. ication (or "Fee Address)2 or more recent) attach	nge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR. Alternatively, (2) the name of a single firm thaving as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is situted, no name will be printed.				
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the T a substitute for filing a (B) RESIDENCE: (CII	patent. If an assign n assignment. 'Y and STATE OR (COUNT	IRY)	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	inted on the patent):	■ Individual □ C	orporat	ion or other private gr	oup entity Government
4a. The following fee(s) Issue Fee Publication Fee (N	vo small entity discount p		D. Payment of Fee(s): (Pl A check is enclosed Payment by credit c The Director is herel overpayment, to Dep	ard. Form PTO-203 by authorized to cha	3 is atta	ached. required fee(s), any de	
	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lo	nger claiming SMA	LL EN	TITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than Office.	the applicant; a reg	istered	attorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
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M/S41-SJ 1109 MCKAY DRIVE				2432 DATE MAILED: 11/19/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 294 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 294 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 09/749 142 WILLE ET AL. Notice of Allowability Examiner Art Unit MINH DINH 2432 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTQL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. X This communication is responsive to the after-final amendment filed 11/03/08 and the Examiner's amendment authorized 11/10/08. 2. The allowed claim(s) is/are 2-4 and 7-14. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. X Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. ____ 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

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EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Elliott D. Light on 11/10/2008.

The application has been amended as follows:

2. (Currently Amended) A method of operating a data-processing device with an integrated circuit comprising one two or more processors in which the integrated circuit performs cryptographic operations, the method comprising:

performing cryptographic operations in the integrated circuit, wherein at least two of the one or more processors perform the cryptographic operations simultaneously and in parallel,

wherein the cryptographic operations of at least one of the one or more processors

processor are useful operations and the cryptographic operations performed by at least one other
processor are dummy operations whose results are rejected, and wherein the selection as to
which of the one two or more processors performs a useful operation is randomly controlled, and

wherein consumption characteristics of the data-processing device being a superimposition of consumption characteristics associated with performing both useful and rejected cryptographic operations, whereby reconstruction of the consumption characteristics associated with performing any of the useful cryptographic operations is impeded.

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 (Currently Amended) A method as claimed in claim 2, wherein the one two or more processors comprise a CPU and at least one co-processor.

(Currently Amended) A data-processing device with an integrated circuit, comprising:
 one two or more processors,

a control unit which controls the one two or more processors so that, in the case of a cryptographic operation, the one or more processors perform at least one processor performs a cryptographic operation simultaneously and in parallel with the performance of a with at least one dummy operation by at least one other processor, and wherein the selection as to which of the one two or more processors performs a useful operation is randomly controlled,

whereby consumption characteristics associated with performing the respective cryptographic and dummy operations are superimposed so that reconstruction of the consumption characteristics associated with performing the cryptographic operation is impeded.

- 13. (Currently Amended) A data-processing device as claimed in claim 12, wherein the recombiner rejects the relevant result of the at least one processor of the one or more processors that performed such dummy operation.
- 14. (Currently Amended) A data-processing device as claimed in claim 10, wherein the one two or more processors comprise a CPU and at least one co-processor.

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The following is an examiner's statement of reasons for allowance. The present invention is directed to a method for performing cryptographic operations using two or more processors in an integrated circuit wherein at least two processors perform the cryptographic operations simultaneously and in parallel, wherein the cryptographic operations of at least one processor are useful operations and the cryptographic operations performed by at least one other processor are dummy operations whose results are rejected. More specifically, independent claims 2 and 10 identify the uniquely distinct features: wherein the selection as to which of the two or more processors performs a useful operation is randomly controlled. The closest prior art includes: (i) Patarin et al. (6,658,569) discloses two or more processors performing useful cryptographic operations simultaneously and in parallel; and (ii) Jahnich et al. (6.725.374) discloses using dummy operations which cause additional advantageous current fluctuation to be observed in a PDA analysis. The prior art, taken either singly or in combination, fails to anticipate or fairly suggest the limitations of applicant's independent claim, in such a manner that a rejection under 35 U.S.C 102 or 103 would be proper. The claimed invention is therefore considered to be in condition for allowance as being novel and nonobylous over prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to MINH DINH whose telephone number is (571)272-3802. The examiner can normally be reached on Mon-Fris 10:00am-6:30om.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. D./ Examiner, Art Unit 2432

11/10/08

/Gilberto Barron Jr/ Supervisory Patent Examiner, Art Unit 2432